

00211" 28806T60

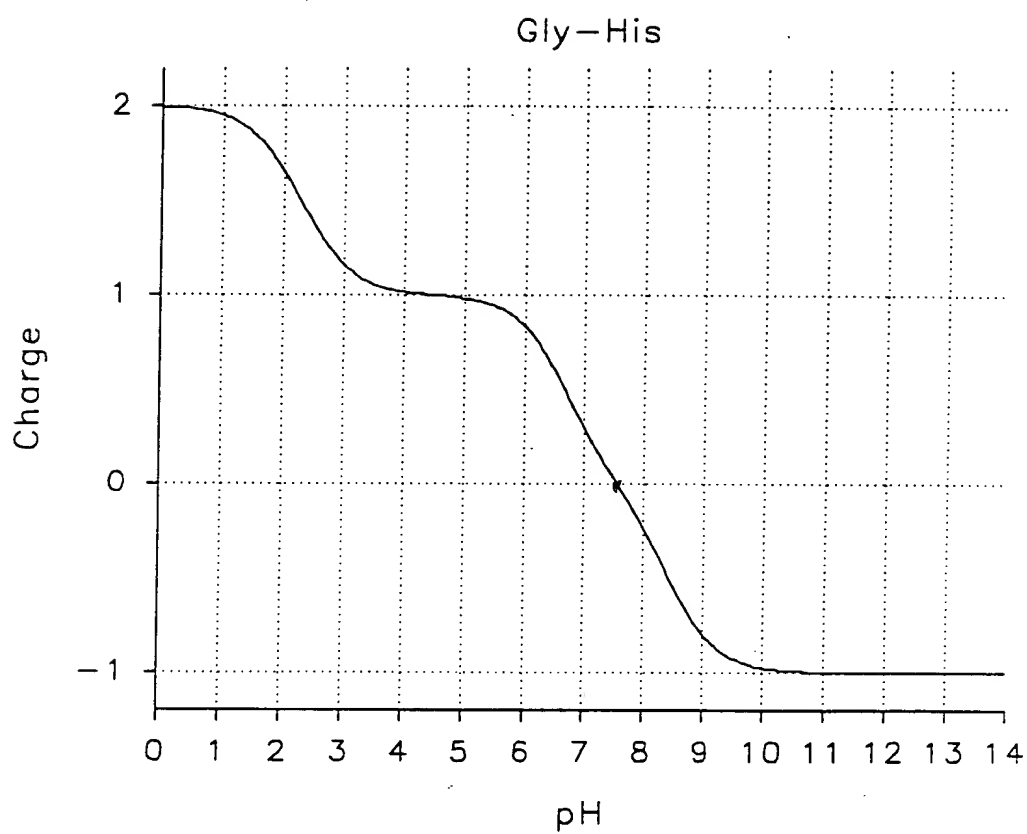


FIG. 1

09190897 11198

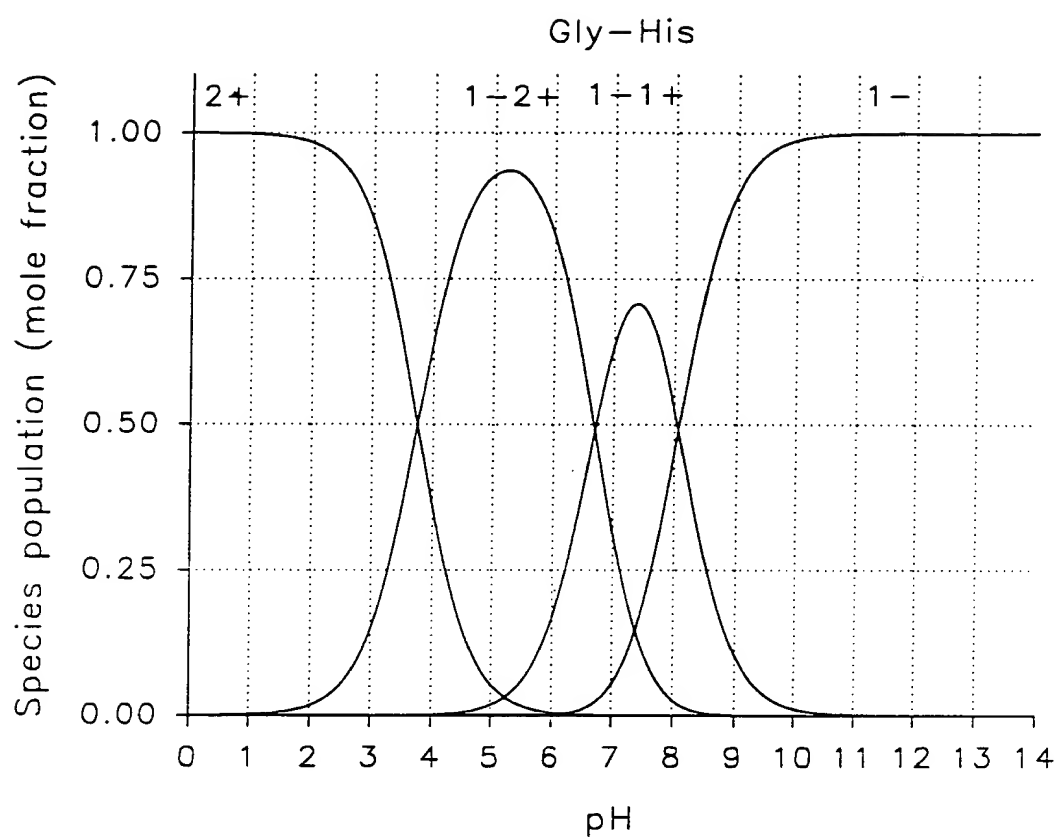


FIG. 2

09190887 111298

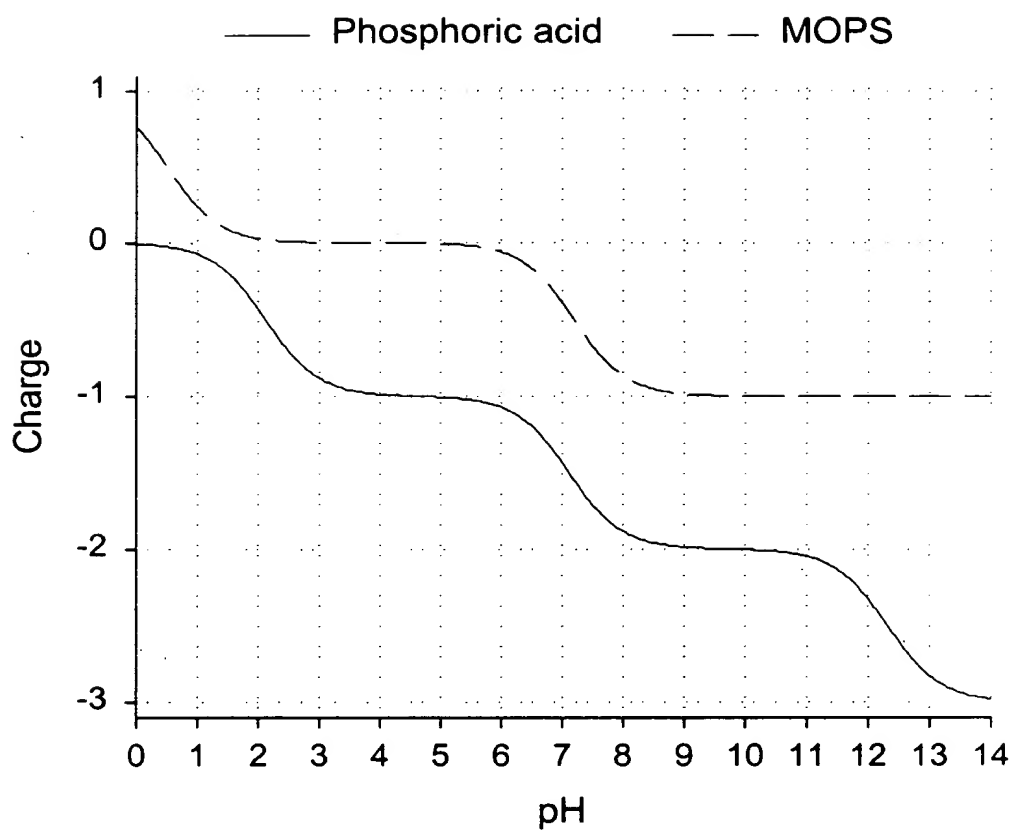


FIG. 3

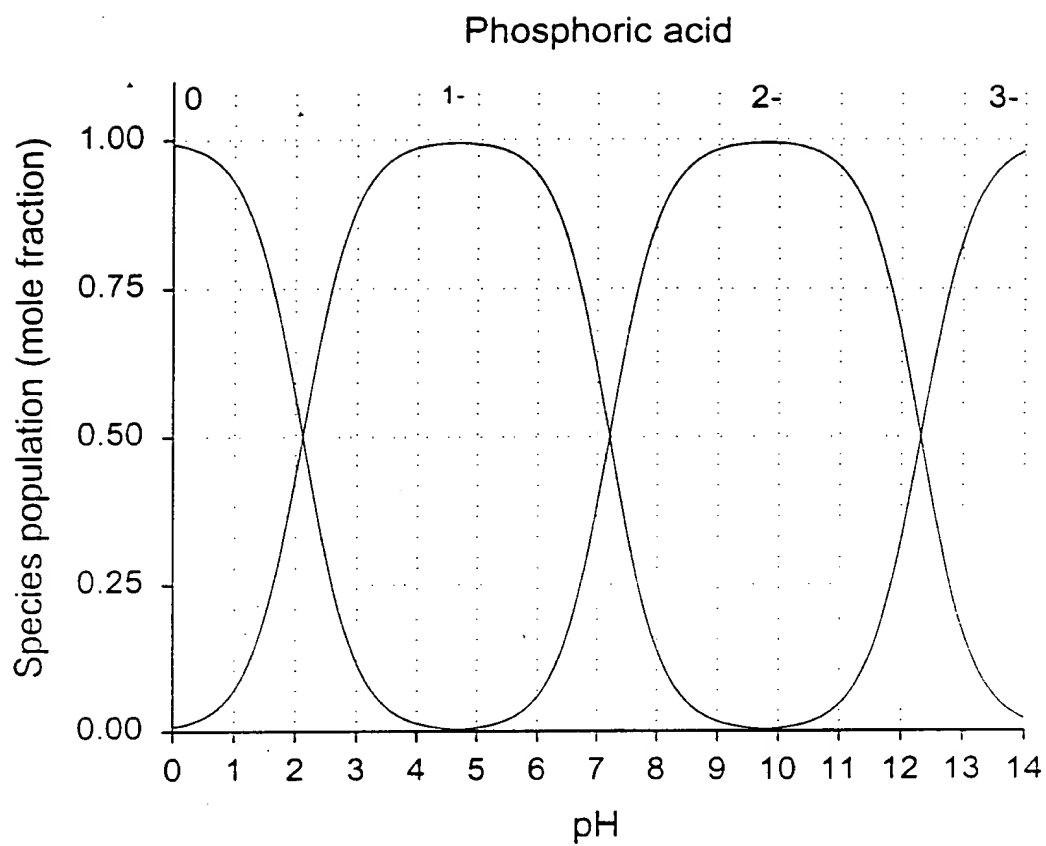


FIG. 4

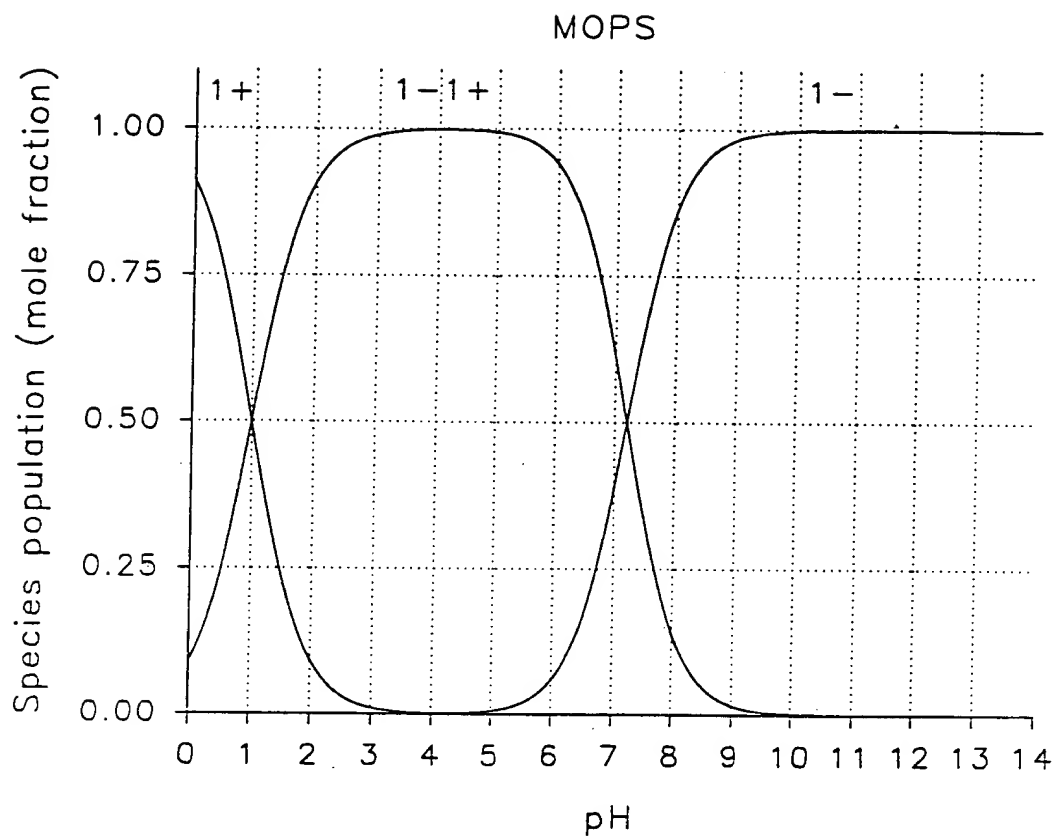


FIG. 5

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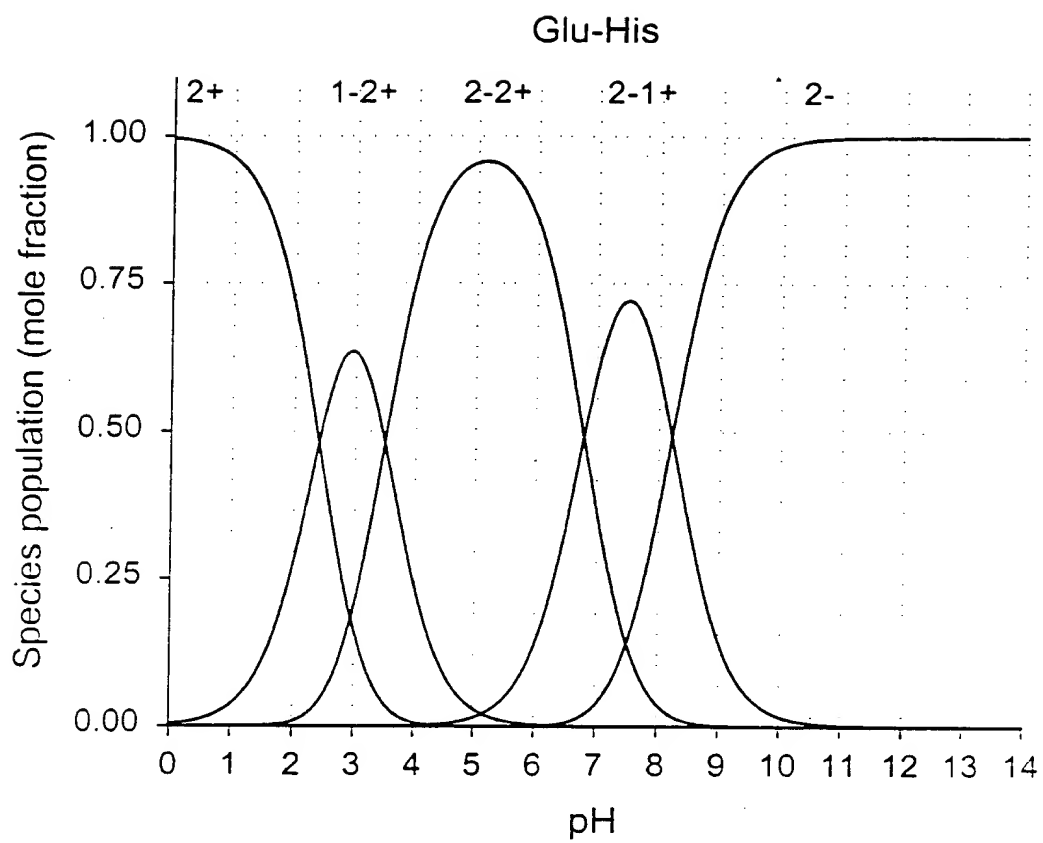


FIG. 6

A titration curve for His-Glu. The y-axis is 'Species population (mole fraction)' from 0.00 to 1.00. The x-axis is 'pH' from 0 to 14. The curve starts at 1.00 for 2+ at pH 0, decreases through 1-2+ (pKa ~3.5), 2-2+ (pKa ~5.5), 2-1+ (pKa ~7.5), and reaches 1.00 for 2- at pH 10.5. The pKa values are approximately 3.5, 5.5, and 7.5.

FIG. 7

FIG. 8

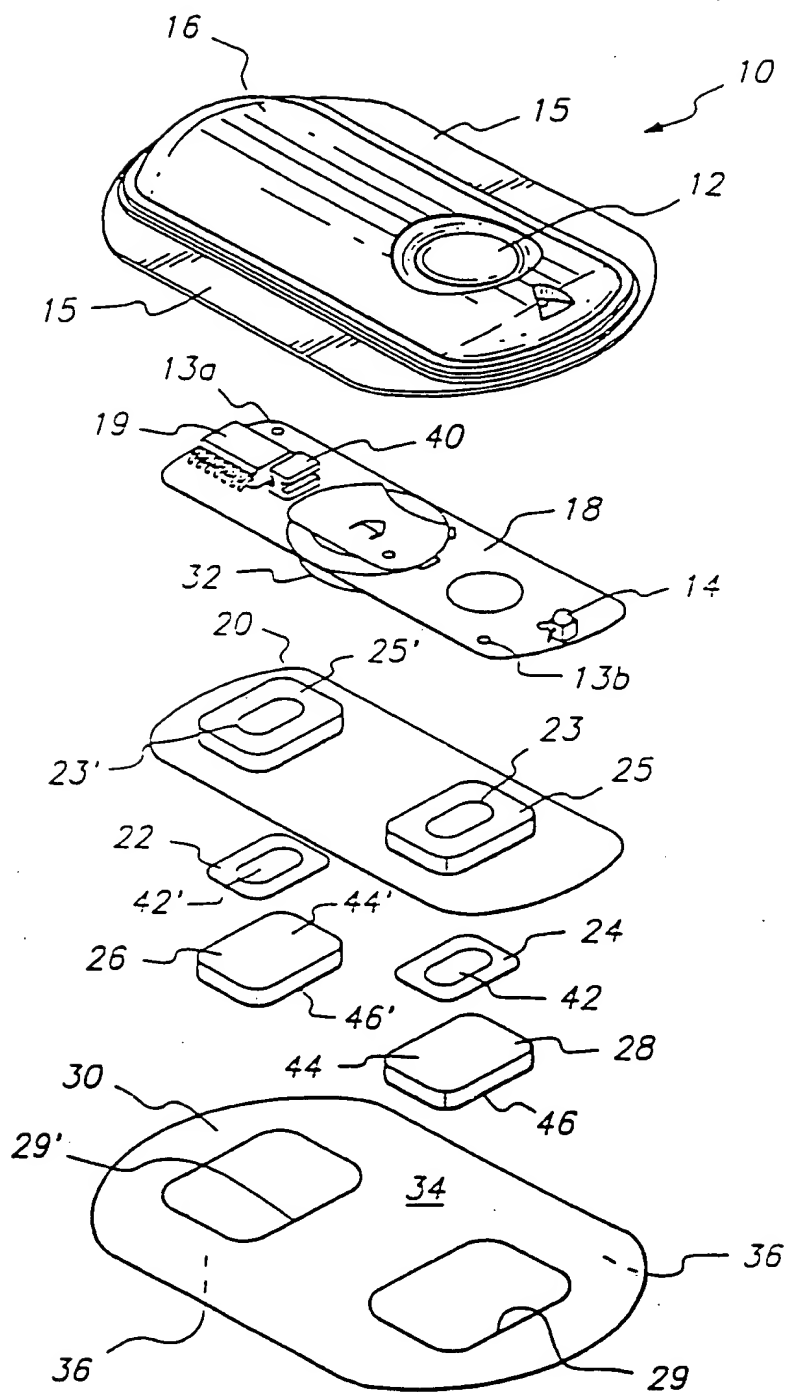




FIG. 9

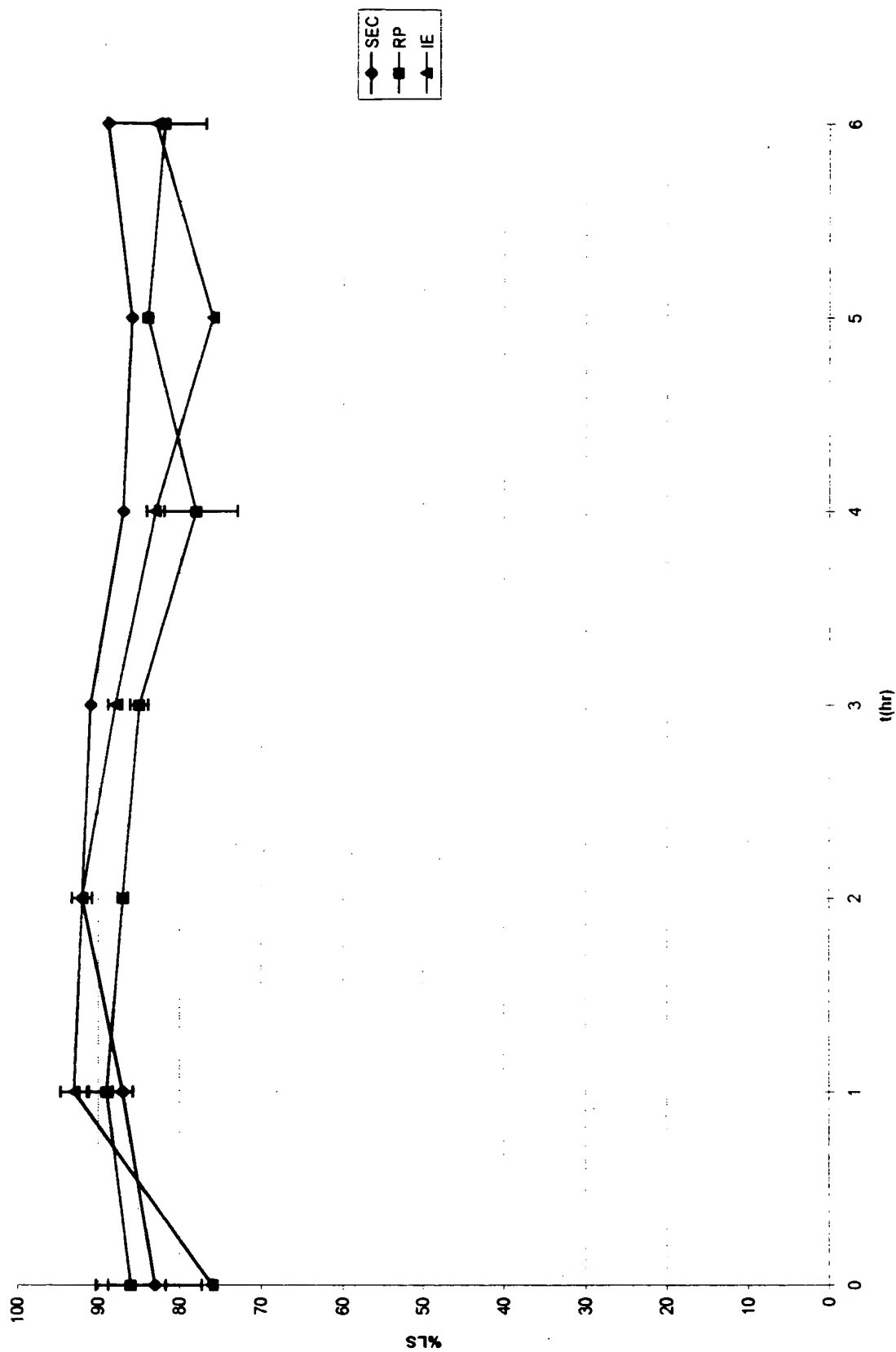
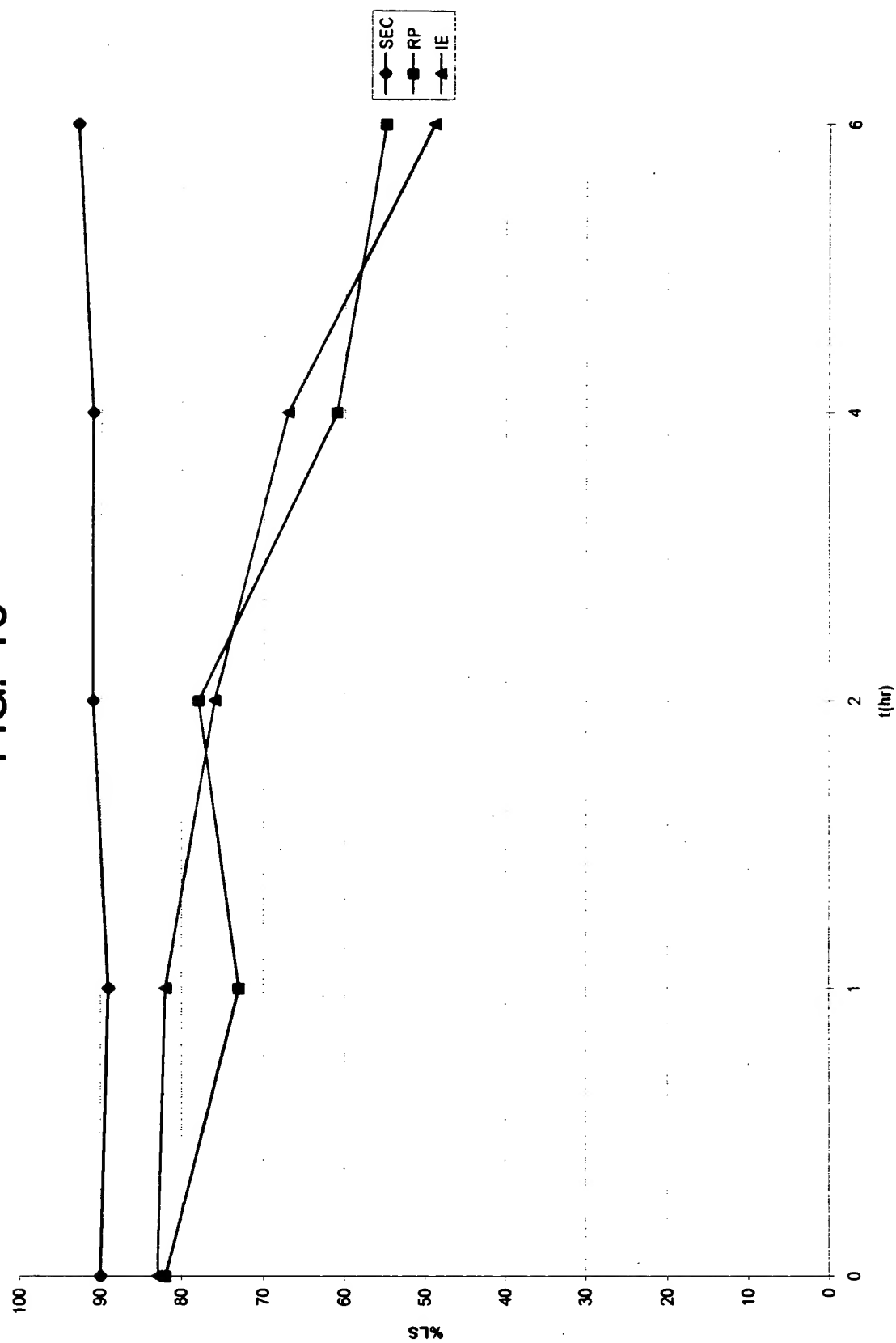


FIG. 10



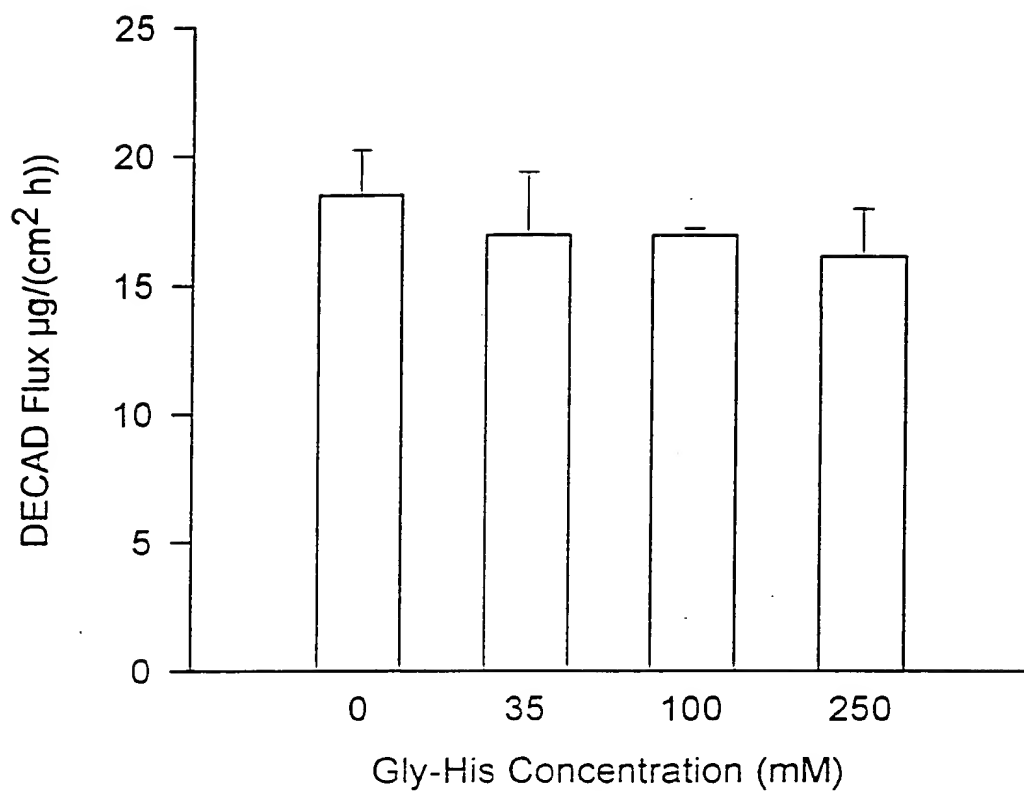


FIG. 11